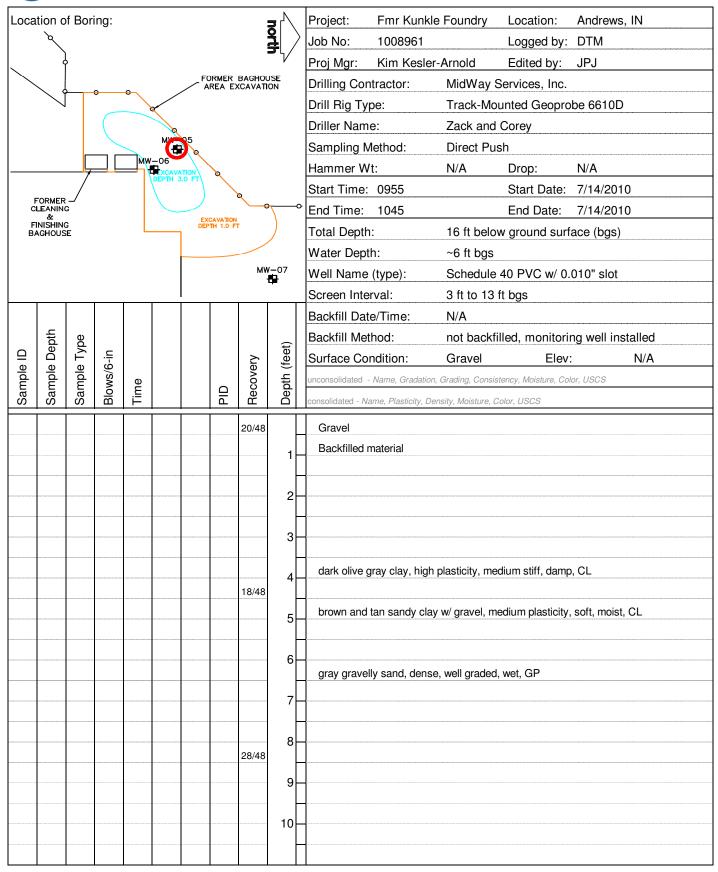
Appendix H

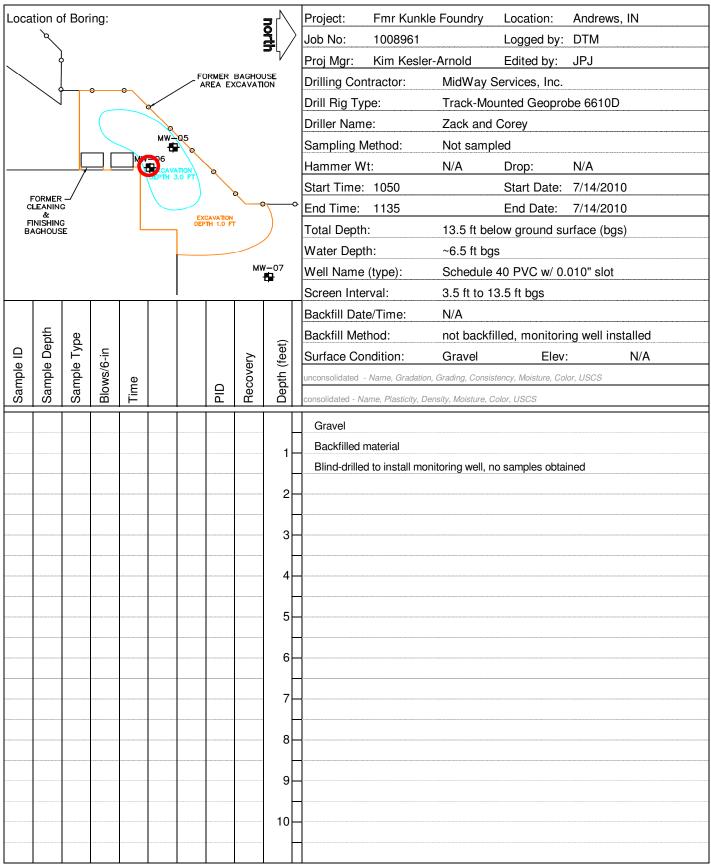
SOIL BORING AND GROUNDWATER CONSTRUCTION LOGS





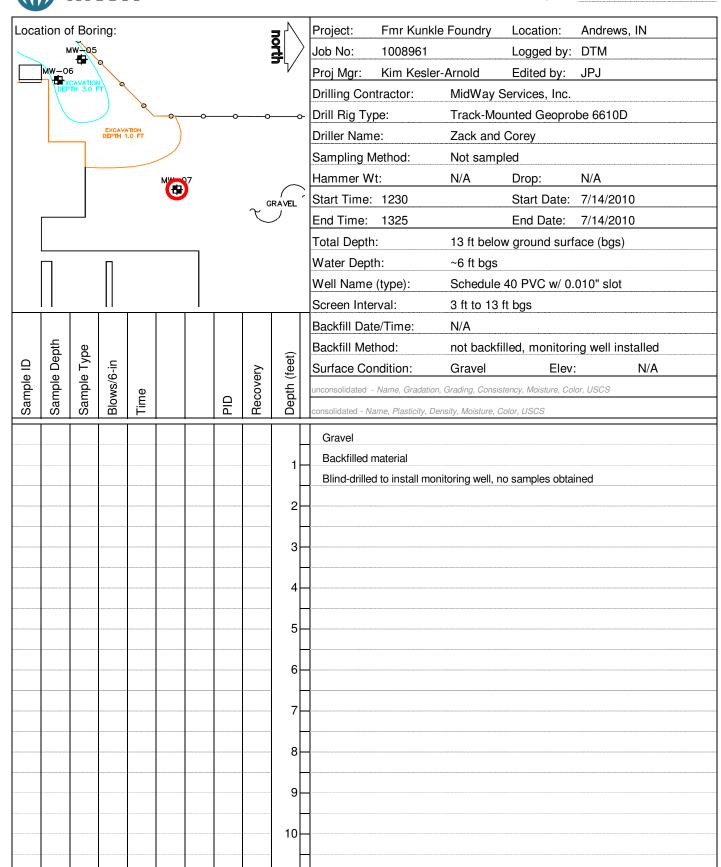
Field Boring Log

Sample ID	Sample Depth	Sample Type	Blows/6-in	_			Recovery	Depth (feet)		Fmr Kunkle Foundry 1008961	Location: Logged by:	Andrews, IN
Sam	Sam	Sam	Blow	Time		PID	Rec	Dept		7/14/10		
						 		11			- d- dt OW	
					***************************************	 ***************************************		-	gray gravelly	y fine sand, dense, well gra	aded, wel, GVV	
						 	28/48	12-	gray and bla	ack silty sand, dense, poorl	y graded, wet, S	M
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						 		15	gray gravelly	y fine sand, dense, well gra	aded, wet, GW	
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le ID	le De	le Ty	/6-in					ver	(feet			1008961	Touridity	Logge		
Sample ID	Sample Depth	Sample Type	Blows/6-in	Time			PID	Recovery	Depth (feet)			7/14/10		Logge	o by.	DIM
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Sample ID	Sample Depth	Sample Type	Blows/6-in	an an				Recovery	Depth (feet)	Job No:	1008961	Logged by:	
Sam	Sam	Sam	Blow	Time			PID	Rec	Dep	Date:	7/14/10		

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60	7		Ü	'	Ί				로[ )	Job No:	1008961		Logged by:	
									<b>-</b> 1/	Proj Mgr:	Kim Kesler-	-Arnold	Edited by:	JPJ
٩	, )	\			FOR	RMER				Drilling Con	tractor:	MidWay S	Services, Inc.	
	b-	لر	_	$\neg \Box$	HOF	TAL PPER			CONCRE SLAB	Drill Rig Typ	oe:	Track-Mou	unted Geopro	be 6610D
	6				<u> </u>	_ FORM SIL	IER O		SEAD	Driller Name	e:	Zack and	Corey	
			MY	8	DEPTH	VATION 2.5 FT				Sampling M	lethod:	Not sampl	ed	
	9	\	•							Hammer W	t:	N/A	Drop:	N/A
		OF E	XCAVATION PTH 1.0	N FT				FOUND	R NON- RY SAN EXCAN	Start Time:	1400		Start Date:	7/14/2010
-		þ	MW <del>=</del> 0	AVATION					2/10/11	End Time:	1450		End Date:	7/14/2010
E		/	MW∓0	9 3.5 FT	/					Total Depth	•	13 ft belov	v ground surf	ace (bgs)
丰		۲	<u>\</u>							Water Dept	h:	~8 ft bgs		
11444				DEP	CAVATION TH 1.0 F	м۷	V—10			Well Name	(type):	Schedule 4	40 PVC w/ 0.	010" slot
	E			7			<del>*</del>	-		Screen Inter	rval:	3 ft to 13 f	t bgs	
										Backfill Date	e/Time:	N/A		
	pth	be							()	Backfill Met	hod:	not backfil	led, monitori	ng well installed
	Sample Depth	Sample Type	9-in					əry	Depth (feet)	Surface Cor	ndition:	Gravel	Elev	: N/A
Sample ID	mple	mple	Blows/6-in	əı				Recovery	pth (	unconsolidated -	Name, Gradation,	Grading, Consist	ency, Moisture, Col	or, USCS
Sal	Sal	Sal	e B	Time			PID	Re	De	consolidated - Na	nme, Plasticity, Der	nsity, Moisture, Co	olor, USCS	
								0/48		Backfilled n	naterial			
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Sample ID	Sample Depth	Sample Type	Blows/6-in	o.				Recovery	Depth (feet)	Job No:	1008961	Logged by:	
Sam	Sam	Sam	Blow	Time			PID	Rec	Dep	Date:	7/14/10		
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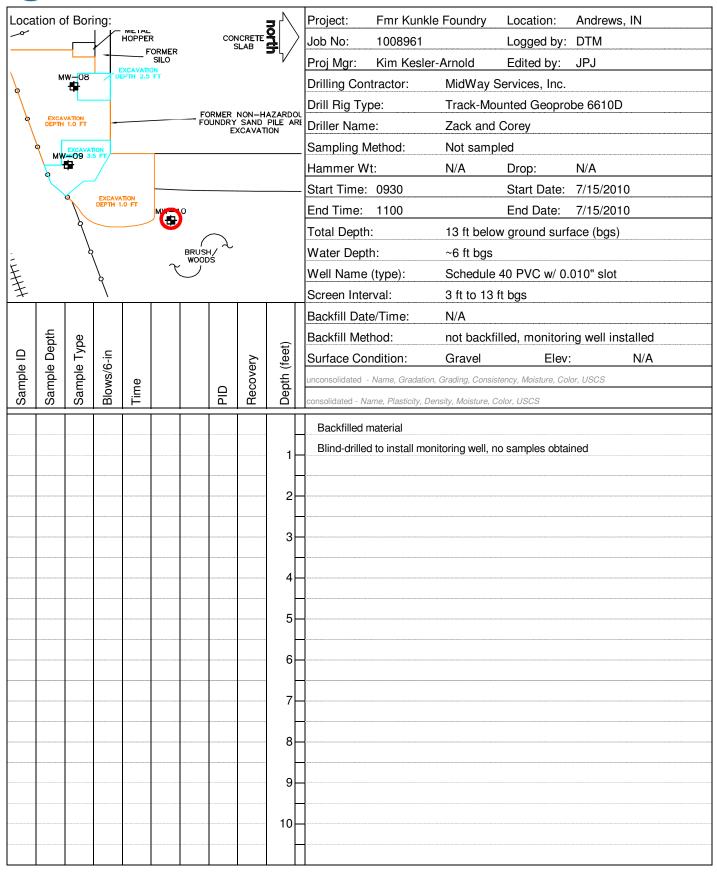
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	40	7	_	\Box	- MET HOPI	AL			SLAB	. ·	Proj Mgr:	Kim Kesler-	Arnold	Edited by:	JPJ	
	6					FORM SILC	ER O		SLAD		Drilling Conf	tractor:	MidWay S	Services, Inc.		
			MW-C	08 /	DEPTH :	ATION 2.5 FT				Ì	Drill Rig Typ		Track-Mou	unted Geopro	be 6610D	
	9		1							İ	Driller Name		Zack and	Corey		
	,	Q E	XCAVATION PTH 1.0 P	N FT				FORM	ER NON PRY SAI EXCA	- NI	Sampling M	ethod:	Not samp			
-		/	EXC	VATION					EXCA	v,	Hammer Wt		N/A	Drop:	N/A	
F		-	M (#)	3.5 FT							Start Time:			Start Date:		0
主		9		/							End Time:	0920		End Date:	7/15/201	
=			g	DEP1	AVATION IH 1.0 FT	MW	/ _10				Total Depth:		13 ft belov	v ground surf		
1	É		Έ	?		ا	/ – 10 ₽	_			Water Depth		~8 ft bgs	9	(29-)	
	主			6				USH/	\mathcal{T}	ı	Well Name			40 PVC w/ 0.	010" slot	
								DODŚ /		Î	Screen Inter		3 ft to 13 f			
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₽	Sample Depth	Sample Type	٠					У	(feet)	ľ	Surface Cor		Gravel	Elev	<u>y</u>	N/A
ble	ple	ble	-9/s	•				over	h (f	li				tency, Moisture, Col		14/71
Sample ID	Sam	Sam	Blows/6-in	Time			PID	Recovery	Depth	•		me, Plasticity, Den			0., 0000	
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	Sample Depth	ype	ر					<u>~</u>	et)	Project:	Fmr Kunkle Foundry	Location:	Andrews, IN
Sample ID	ple D	Sample Type	Blows/6-in	40			_	Recovery	Depth (feet)	Job No:	1008961	Logged by:	DTM
Sam	Sam	Sam	Blow	Time			PID	Rec	Depi	Date:	7/15/10		
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Sample ID	Sample Depth	Sample Type	Blows/6-in				_	Recovery	Depth (feet)	Job No:	1008961	Logged by:	
Sam	Sam	Sam	Blow	Time			PID	Rec	Dept	Date:	7/15/10		
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Depth:			Project:	Fmr Kunkle	Foundry	Location:	Andrews, IN
-2 ft		top of casing	Job No:	1008961		Logged by:	DTM
			Proj Mgr:	Kim Kesler-	-Arnold	Date:	7/14/2010
	ПΠ		Drilling Con	tractor:	MidWay Se	ervices, Inc.	
0.5 ft		top of annular seal	Drill Rig Typ	oe:	Track-Mou	nted Geoprob	e 6610D
	ПП		Driliing Meth	nod:	Hollow Ste	m Auger	
			Borehole Di	ameter:	8.25 inch		
			Surface Cor	ndition:	Gravel	Elev	: N/A
			Well Box Ty	rpe:	Stick-up		
			Lock:		Yes		
			J-Plug:		Yes		
			Concreate S	Seal:	Yes		
			Sand Draina	age:	Yes		
			Riser Pipe 7	Гуре:	Schedule 40), 2 inch Dian	neter PVC
			Riser Pipe L	_ength:	~5 ft		
			Annular Sea		Bentonite c	hips	
			Installation I	Method:	Gravity		
					0.24		4.50.1
			Volume Pla	ced:	0.34 cubic 1	feet (0.5 ft to	1.5 ft bgs)
1.5 ft		top of seal	Bentonite S	eal Type:	Bentonite c	hips	
		·	Installation I		Gravity	•	
2.5 ft		top of filter pack	Volume Pla	ced:	0.34 cubic 1	feet (1.5 ft to	2.5 ft bgs)
3 ft		top of screen	Filter Pack I	Material	Silica sand		
			Volume Pla	ced	3.57 cubic 1	feet (2.5 ft to	13 ft bgs)
			Screen Typ	e:	2 inch diam	eter, schedule	e 40 PVC
			Screen Len	gth:	10 ft (3 ft to	o 13 ft bgs)	
			Slot Size:		0.010 inch		
			Slotted Leng	_	9.5 feet		
			Screen Diar	meter:	2 inch ID, 2	2.25 inch OD	
ft		bottom of screen	O''. T		27/4		
13 ft	╽╙	bottom of well	Silt Trap:		N/A		
13 ft		bottom of boring	Material Bel	low Screen:	N/A		
		1 25	linatorial Boi		- "		



Depth:		Project:	Fmr Kunkle	Foundry	Location: Andrews, IN
-2 ft	top of casing	Job No:	1008961		Logged by: DTM
		Proj Mgr:	Kim Kesler-	-Arnold	Date: 7/14/2010
\Box		Drilling Cont	ractor:	MidWay Se	ervices, Inc.
0.5 ft	top of annular seal	Drill Rig Typ	e:	Track-Mour	nted Geoprobe 6610D
		Driliing Meth	iod:	Hollow Ster	m Auger
		Borehole Dia	ameter:	8.25 inch	
		Surface Con	dition:	Gravel	Elev: N/A
		Well Box Ty	pe:	Stick-up	
		Lock:		Yes	
		J-Plug:		Yes	
		Concreate S	Seal:	Yes	
		Sand Draina	ıge:	Yes	
		Riser Pipe T	ype:	Schedule 40), 2 inch Diameter PVC
		Riser Pipe L	ength:	~5 ft	
		Annular Sea	l Type:	Bentonite cl	hips
		Installation N	Method:	Gravity	
		Volume Plac	ed:	0.51 cubic f	Feet (0.5 ft to 2 ft bgs)
<u>2</u> ft	top of seal	Bentonite Se	eal Type:	Bentonite cl	hips
- 111		Installation N	Method:	Gravity	
- 111					
3 ft	top of filter pack	Volume Plac			Seet (2 ft to 3 ft bgs)
3.5 ft	top of screen	Filter Pack N	/laterial	Silica sand	
		Volume Plac	ed	3.57 cubic f	Feet (3 ft to 13.5 ft bgs)
		Screen Type) :	2 inch diam	eter, schedule 40 PVC
				10.6 (2.5 6)	. 10.5 %1
		Screen Leng	yth:	-	to 13.5 ft bgs)
		Slot Size:	.1	0.010 inch	
		Slotted Leng		9.5 feet	25: 105
		Screen Dian	neter:	2 inch ID, 2	2.25 inch OD
12.54					
13.5 ft	bottom of screen	Cilt Trop.		NT/A	
<u>13.5</u> ft	bottom of well	Silt Trap:		N/A	
13.5 #	hottom of horizon	Material Belo	ow Soroon:	N/A	
ft	bottom of boring	ivialeriai Dell	JW JUIEEII.	11//1	



Depth:			Project:	Fmr Kunkle	Foundry	Location:	Andrews, IN
-2 ft		top of casing	Job No:	1008961		Logged by:	DTM
			Proj Mgr:	Kim Kesler-	-Arnold	Date:	7/14/2010
			Drilling Con	tractor:	MidWay Se	ervices, Inc.	
0.5 ft		top of annular seal	Drill Rig Typ	e:	Track-Mou	nted Geoprob	e 6610D
			Driliing Meth	nod:	Hollow Ste	m Auger	
			Borehole Di	ameter:	8.25 inch		
			Surface Cor	ndition:	Gravel	Elev	: N/A
			Well Box Ty	pe:	Stick-up		
			Lock:		Yes		
			J-Plug:		Yes		
			Concreate S	Seal:	Yes		
			Sand Draina	age:	Yes		
			Riser Pipe 1	Гуре:	Schedule 40), 2 inch Dian	neter PVC
			Riser Pipe L	ength:	~5 ft		
			Annular Sea	al Type:	Bentonite c	hips	
			Installation I	Method:	Gravity		
			Volume Plac	ced:	0.34 cubic 1	feet (0.5 ft to	1.5 ft bgs)
ft	∐L	top of seal	Bentonite S	eal Type:	Bentonite c	hips	
			Installation I	Method:	Gravity		
ft		top of filter pack	Volume Plac	ced:	0.34 cubic 1	feet (1.5 ft to	2.5 ft bgs)
<u>3</u> ft		top of screen	Filter Pack I	Material	Silica sand		
			Volume Plac	ced	3.57 cubic 1	feet (2.5 ft to	13 ft bgs)
			Screen Type	e:	2 inch diam	eter, schedule	e 40 PVC
			Screen Len	gth:	10 ft (3 ft to) 13 ft bgs)	
			Slot Size:		0.010 inch		
			Slotted Leng	_	9.5 feet		
			Screen Diar	neter:	2 inch ID, 2	2.25 inch OD	
13 ft		bottom of screen	OIL T		NT/A		
<u>13</u> ft	╽╽	bottom of well	Silt Trap:		N/A		
10.4			Matarial D	C	NT/A		
<u>13</u> ft		bottom of boring	Material Bel	ow Screen:	N/A		
			1				



Depth:			Project:	Fmr Kunkle	Foundry	Location:	Andrews, IN
-2 ft		top of casing	Job No:	1008961		Logged by:	DTM
	П		Proj Mgr:	Kim Kesler-	-Arnold	Date:	7/14/2010
			Drilling Cont	tractor:	MidWay Se	rvices, Inc.	
0.5 ft		top of annular seal	Drill Rig Typ	e:	Track-Mour	nted Geoprob	e 6610D
			Driliing Meth	nod:	Hollow Ster		
			Borehole Dia	ameter:	8.25 inch		
			Surface Cor	ndition:	Gravel	Elev:	N/A
			Well Box Ty	pe:	Stick-up		
			Lock:		Yes		
			J-Plug:		Yes		
			Concreate S	Seal:	Yes		
			Sand Draina	age:	Yes		
			Riser Pipe T	уре:	Schedule 40), 2 inch Dian	neter PVC
			Riser Pipe L	ength:	~5 ft		
			Annular Sea	ıl Type:	Bentonite ch	nips	
			Installation I	Method:	Gravity		
			Volume Plac	ced:	0.34 cubic f	eet (0.5 ft to	1.5 ft bgs)
ft	╛┖	top of seal	Bentonite Se	eal Type:	Bentonite ch	nips	
			Installation I	Method:	Gravity		
ft		top of filter pack	Volume Plac			eet (1.5 ft to 2	2.5 ft bgs)
<u>3</u> ft		top of screen	Filter Pack N	Material	Silica sand		
			Volume Plac	ced	3.57 cubic f	eet (2.5 ft to	13 ft bgs)
					<u> </u>		10 7710
			Screen Type	e:	2 inch diame	eter, schedule	e 40 PVC
			0		10.6 (2.6)	12.6.1	
			Screen Leng	gin:	10 ft (3 ft to	13 II bgs)	
			Slot Size:	wth.	0.010 inch		
			Slotted Lenç Screen Diar		9.5 feet	25 in ah OD	
			Screen Diar	neter:	Z IIICH ID, Z	.25 inch OD	
13 ft		bottom of screen					
13 ft		bottom of well	Silt Trap:		N/A		
		DOLLOTTI OT WEIT	Jam Hap.		11/11		
13 ft		bottom of boring	Material Bel	ow Screen:	N/A		
				2.7. 20.0011.	- 11.4		
			1				



Depth:			Project: Fmr Kunkle		Foundry	Location:	Andrews, IN	
<u>-2</u> ft		top of casing	Job No:	1008961		Logged by:	DTM	
			Proj Mgr:	Kim Kesler	-Arnold	Date:	7/15/2010	
			Drilling Con	tractor:	MidWay Se	ervices, Inc.		
0.5 ft		top of annular seal	Drill Rig Typ	e:	Track-Mou	nted Geoprobe	e 6610D	
			Driliing Method:		Hollow Ste	m Auger		
			Borehole Diameter:		8.25 inch			
			Surface Cor	ndition:	Gravel	Elev:	N/A	
			Well Box Ty	pe:	Stick-up			
			Lock:		Yes			
			J-Plug:		Yes			
			Concreate S	Seal:	Yes			
			Sand Draina	age:	Yes			
			Riser Pipe Type:		Schedule 40, 2 inch Diameter PVC			
			Riser Pipe L	ength:	~5 ft			
			Annular Seal Type:		Bentonite chips			
			Installation I	Method:	Gravity			
					-			
			Volume Plac	ced:	0.34 cubic 1	feet (0.5 ft to 1	.5 ft bgs)	
<u>1.5</u> ft	44	top of seal	Bentonite Seal Type:		Bentonite c	hips		
	Ш		Installation I	Method:	Gravity			
2.5.4	Ш		Valore Dia	1-	0.24 1:	C . (1.5.C		
2.5 ft	48	top of filter pack	Volume Placed: Filter Pack Material		0.34 cubic feet (1.5 ft to 2.5 ft bgs)			
<u>3</u> ft		top of screen	Filter Pack I	viateriai	Silica sand			
			Volume Plac	and	2 57 aubia t	feet (2.5 ft to 1	2 ft has)	
			Volume Flat	ceu	3.37 Cubic 1	1661 (2.3 11 10 1	5 it ogs)	
			Screen Type:		2 inch diameter, schedule 40 PVC			
			Corcer Typ	Screen Type.		icter, senedure	+01 VC	
			Screen Leng	ath:	10 ft (3 ft to	o 13 ft bgs)		
			Slot Size:		10 ft (3 ft to 13 ft bgs) 0.010 inch			
			Slotted Length:		9.5 feet			
			Screen Diameter:		2 inch ID, 2.25 inch OD			
13 ft		bottom of screen						
13 ft		bottom of well	Silt Trap:		N/A			
13 ft		bottom of boring	Material Below Screen:		N/A			
		·						



Depth:			Project:	Fmr Kunkle	Foundry	Location:	Andrews, IN	
-2 ft		top of casing	Job No:	1008961		Logged by:	DTM	
			Proj Mgr:	Kim Kesler-	-Arnold	Date:	7/15/2010	
			Drilling Con	tractor:	MidWay Se	ervices, Inc.		
0.5 ft		top of annular seal	Drill Rig Typ	e:	Track-Mounted Geoprobe 6610D			
	ПП		Driliing Method:		Hollow Stem Auger			
			Borehole Diameter:		8.25 inch			
			Surface Cor	ndition:	Gravel	Elev	: N/A	
			Well Box Ty	pe:	Stick-up			
			Lock:		Yes			
			J-Plug:		Yes			
			Concreate S	Seal:	Yes			
			Sand Draina	age:	Yes			
			Riser Pipe Type:		Schedule 40, 2 inch Diameter PVC			
			Riser Pipe L	ength:	~5 ft			
			Annular Seal Type:		Bentonite c	hips		
			Installation I	Method:	Gravity			
			Volume Plac	ced:	0.34 cubic f	feet (0.5 ft to	1.5 ft bgs)	
1.5 ft		top of seal	Bentonite S	eal Type:	Bentonite c	hips		
		100 01 000.	Installation I		Gravity	r ~		
2.5 ft		top of filter pack	Volume Plac	ced:	0.34 cubic f	feet (1.5 ft to	2.5 ft bgs)	
3 ft		top of screen	Filter Pack I	Material	Silica sand			
			Volume Plac	ced	3.57 cubic f	feet (2.5 ft to	13 ft bgs)	
		Screen Type:		2 inch diameter, schedule 40 PVC				
			Screen Length: Slot Size:		10 ft (3 ft to	o 13 ft bgs)		
					0.010 inch			
			Slotted Leng	_	9.5 feet			
			Screen Diar	neter:	2 inch ID, 2	2.25 inch OD		
13 ft		bottom of screen	0111 =		27/4			
ft	╽╙	bottom of well	Silt Trap:		N/A			
13 ft		bottom of boring	Material Bel	ow Screen:	N/A			
		1 25		21. 20.00111	- "			